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Electromechanical Relays

Hasco Component's electromechanical relays range from less than an amp to 80 amps. Hasco's relays are UL and CSA with some TUV ratings. All relays have DC coils and many have an AC coil. They come sealed for wave soldering and washing thereby allowing the relays to be put on any assemble line. There are surface mount low current relays available as well.

HAT-900 SERIES HEAVY DUTY SPDT 40A NORMALLY OPEN & 30A NORMALLY CLOSED

File E75887

File LR49291



GENERAL SPECIFICATIONS	
Contact Material:	silver cadmium oxide with copper base
Max. continuous rated voltage:	110% of nominal voltage
Pull-In voltage:	75% of nominal voltage. Max @ 25°C
Drop-Out voltage:	10% of nominal voltage. Min @ 25°C
Contact Resistance:	20m Ohms max. (Initial value)
Operating Temp:	Class B: -40°C to 85°C Class F: -40°C to 105°C
Insulation Resist:	DC 500V 10 M Ohms min.
Dielectric Strength:	AC 2000V between contact and coil, frame and contact, coil and frame one minute. AC 1500V between contacts one minute.
Operate Time:	approx. 15 ms.
Release Time:	approx. 10 ms.
Electrical Life:	10 x 10 ⁴ operation min. for 30A resistive load (N.O.) 5 x 10 ⁴ operations min. for 40A Resistive Load(N.O.)
Mechanical Life:	10 x 10 ⁶ operation min.

DC COIL SPECIFICATIONS

Nominal Voltage (VDC)	Resistance ±10% @ 25°C (Ohms)	Coil Power @ 25°C (Watts)
5	27	.93
6	40	.90
9	97	.84
12	155	.93
15	256	.88
18	380	.85
22	640	.76
24	660	.87
48	2560	.88
110	13400	.90

AC COIL SPECIFICATIONS

Nominal Voltage (at 25°C)	Resistance ±10% @ 25°C (Ohms)	Coil Power @ 25°C (VA)
12VAC	27	Approx 2VA
24VAC	120	
110VAC	2,360	
120VAC	3,040	
220VAC	13,490	
240VAC	15,735	
277VAC	20,300	

MAXIMUM LOAD SPECIFICATIONS

Voltage	Load Type	SPNC	SPNO
AC	Resistive	30A 277VAC	40A 277VAC
	Motor	1HP 120VAC	1HP 120 VAC
		2HP 277VAC	2HP 277VAC
	General Purpose	30A 277VAC	40A 277VAC
	Ballast	10A 120VAC	30A 120VAC
		10A 277VAC	20A 277VAC
DC	Tungsten	2A 120VAC	15A 120VAC
	Resistive	30A 28VDC	30A 28VDC

Shock Operational - 10g for 11ms w/no contact opening

Shock Destructive - 100g

NOTES:

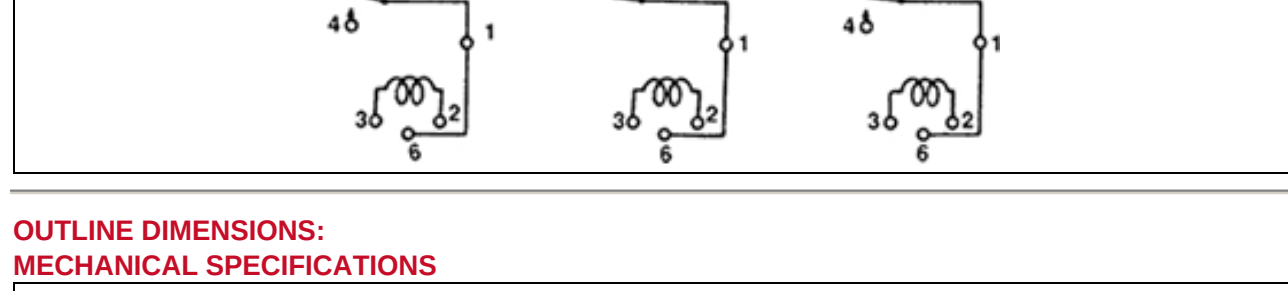
1-Typical electrical load and endurance: at 30A 240,Resistive at room temperature, 100,000 OPS, for NO Contact, remove vent nib after soldering and cleaning

2-The data shown above are initial values

ORDERING INFORMATION

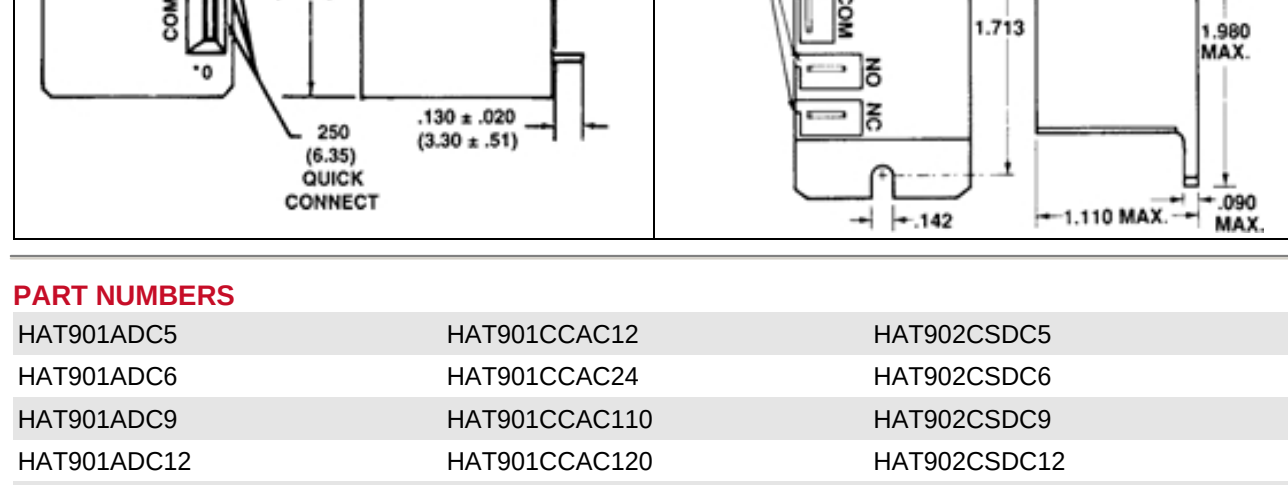
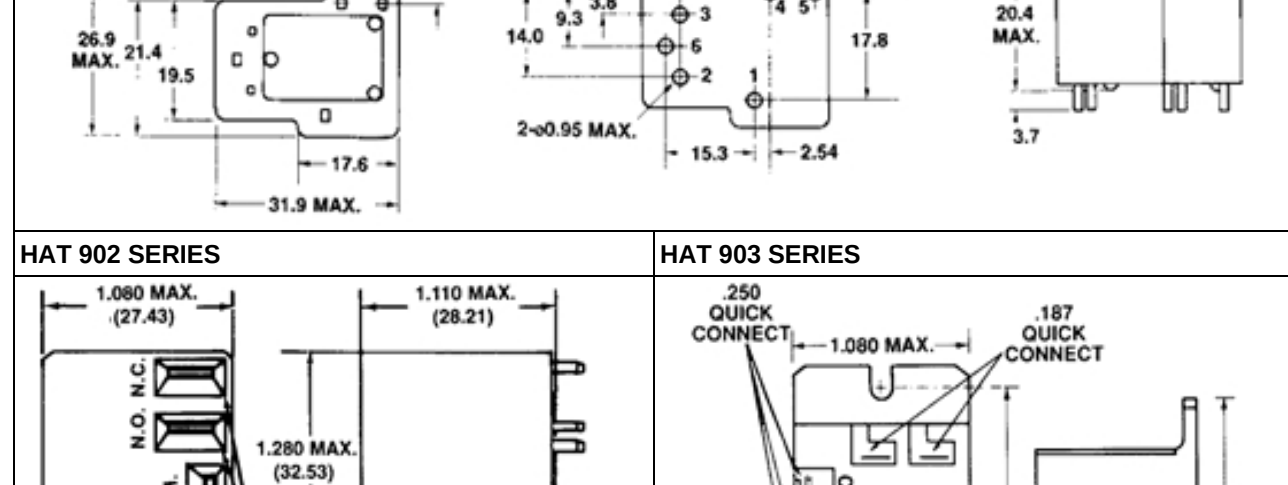
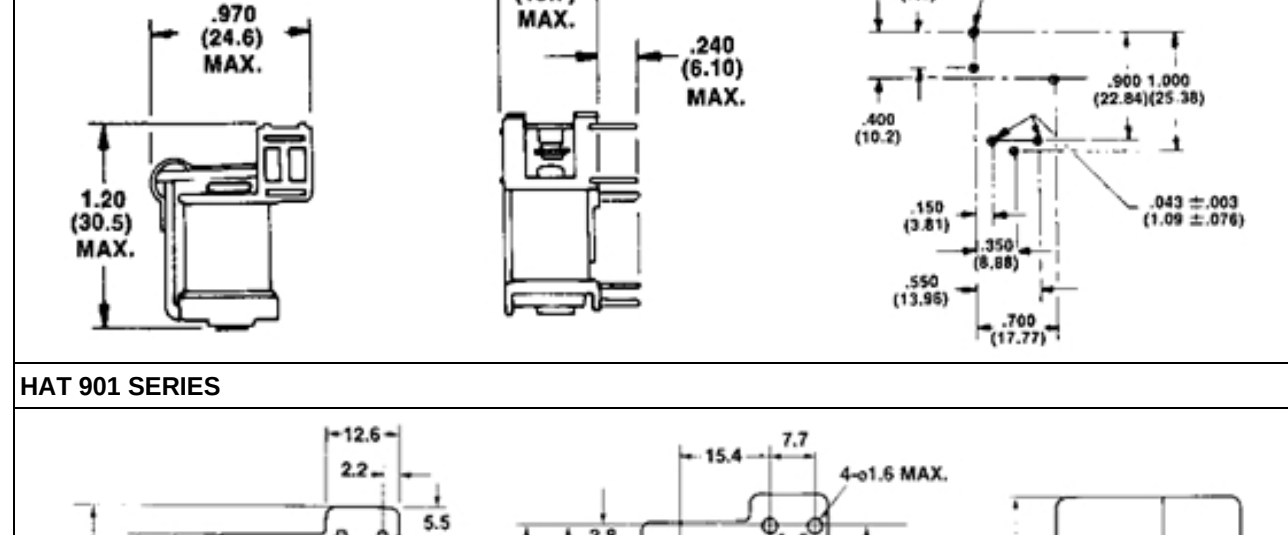
HAT	901	C	S	DC	12	-1
	Temp. Class	Type	Form	Style	Coil Voltage	Option
	Nil: Class B F: Class F	901: PC Pins Only 902: PC Pins & Quick Connects 903: Quick Connects Only — Flange Mount	A: SPST-NO B: SPST-FNC C: SPDT	Nil: Open C: Cover, not sealed S: Cover, sealed	AC or DC See Table	Pin 6 is Omitted UL 840 *

WIRING DIAGRAMS:



OUTLINE DIMENSIONS:

MECHANICAL SPECIFICATIONS



PART NUMBERS

HAT901ADC5	HAT901CCAC12	HAT902CSDC5
HAT901ADC6	HAT901CCAC24	HAT902CSDC6
HAT901ADC9	HAT901CCAC110	HAT902CSDC9
HAT901ADC12	HAT901CCAC120	HAT902CSDC12
HAT901ADC15	HAT901CCAC220	HAT902CSDC15
HAT901ADC18	HAT901CCAC240	HAT902CSDC18
HAT901ADC22	HAT901CCAC277	HAT902CSDC22
HAT901ADC24	HAT901CSAC12	HAT902CSDC24
HAT901ADC48	HAT901CSAC24	HAT902CSDC48
HAT901ADC110	HAT901CSAC110	HAT902CSDC110
HAT901ACDC5	HAT901CSAC120	HAT902CAC12
HAT901ACDC6	HAT901CSAC220	HAT902CAC24
HAT901ACDC9	HAT901CSAC240	HAT902CAC110
HAT901ACDC12	HAT901CSAC277	HAT902CAC120
HAT901ACDC15	HAT902ADC5	HAT902CAC220
HAT901ACDC18	HAT902ADC6	HAT902CAC240
HAT901ACDC22	HAT902ADC9	HAT902CAC277
HAT901ACDC24	HAT902ADC12	HAT902CCAC12
HAT901ACDC48	HAT902ADC15	HAT902CCAC24
HAT901ACDC110	HAT902ADC18	HAT902CCAC110
HAT901ASDC5	HAT902ADC22	HAT902CCAC120
HAT901ASDC6	HAT902ADC24	HAT902CCAC220
HAT901ASDC9	HAT902ADC48	HAT902CCAC240
HAT901ASDC12	HAT902ADC110	HAT902CCAC277
HAT901ASDC15	HAT902ADC15	HAT902CSAC12
HAT901ASDC18	HAT902ADC18	HAT902CSAC24
HAT901ASDC22	HAT902ADC22	HAT902CSAC110
HAT901ASDC24	HAT902ADC24	HAT902CSAC120
HAT901ASDC48	HAT902ADC48	HAT902CSAC240
HAT901ASDC110	HAT902ADC110	HAT902CSAC277
HAT901AAC24	HAT902AAC12	HAT903ACDC5
HAT901AAC110	HAT902AAC24	HAT903ACDC6
HAT901AAC120	HAT902AAC110	HAT903ACDC9
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